

IN THE CLAIMS:

Please amend the claims, as follows:

1. (Currently Amended) An image sensing apparatus comprising:
  - a radiation generating apparatus adapted to generate radiation after receiving an exposure preparation signal;
  - a sensor comprising a plurality of image pick up elements for converting radiation to electrical signals;
  - a signal line adapted to read out said electrical signals from said image pick up elements;
  - a preamplifier adapted to amplify said electrical signals read out from said image pickup elements through said signal line;
  - a first power source adapted to set said signal line to a reference potential so as to set said image pick up elements to an initialized state;
  - a second power source adapted to supply electrical power to said preamplifier; and
  - a control circuit adapted to cause control said first power source to set said signal line to the reference potential before said radiation generating apparatus irradiates radiation, and to cause and said second power source such that said first power source supplies electrical power after a first period of time elapses from receipt of said exposure preparation signal, and said second power source supplies electrical power to said preamplifier after a second period of time elapses from receipt of said exposure

preparation signal to supply electrical power to said preamplifier after said radiation generating apparatus irradiates radiation.

wherein said control circuit is further adapted to determine whether both of second time period is longer than said first time period and wherein said first power source is connected to said signal line and said second power source are stopped or whether only said second power source is stopped, wherein said control circuit makes said determination after reading out said electrical signals from said image pickup elements.

2. to 18. (Cancelled)

19. (Previously Presented) An image sensing apparatus according to Claim 1, wherein said control circuit controls said second power source so as to start supply of electrical power to said preamplifier on the basis of a timing of a reception of an exposure completion signal for said radiation generating apparatus.

20. (Previously Presented) An image sensing apparatus according to Claim 19, wherein the exposure completion signal is generated by a radiation exposure dose monitor (AEC) in accordance with a reception of radiation or a monitor circuit for monitoring the electrical power of said radiation generating apparatus.

21. (Currently Amended) An image sensing apparatus according to Claim 1, further comprising an exposure permission timer adapted to generate a radiation

exposure permission signal for said radiation generating apparatus to generate radiation after a predetermined time elapses from setting of said signal line to the reference potential by supply of the electrical power from said first power source to said sensor, and

wherein said control circuit controls said second power source so as to start a supply of electrical power to said preamplifier on the basis of a timing of generating a radiation exposure permission signal.

22. (Currently Amended) An image sensing apparatus according to Claim 21, wherein said exposure permission timer generates the radiation exposure permission signal to said radiation generating apparatus to generate radiation on the basis of a time which is required to obtain a stable state of said sensor unit.

23. (Currently Amended) An image sensing apparatus according to Claim 21, wherein said exposure permission timer generates the radiation exposure permission signal to said radiation generating apparatus to generate radiation on the basis of a time which is required to obtain a stable state of an offset of said sensor unit.

24. (Currently Amended) An image sensing apparatus according to Claim 21, wherein said exposure permission timer checks in a real time manner an offset amount of said sensor unit, and generates the radiation exposure permission signal to said radiation generating apparatus on the basis of the checked offset amount.

25. (Cancelled)

26. (Currently Amended) An image sensing apparatus according to Claim 1, wherein said control circuit ~~controls to read-out a~~ is further adapted to read data from said sensor unit, and ~~controls to control~~ said second power source so as to stop a supply of electrical power to said preamplifier on the basis of a timing of the completion of the read-out operation.

27. (Currently Amended) An image sensing apparatus according to Claim 1, wherein said control circuit controls said first power source so as to ~~start a supply of electrical power to said sensor~~ set said signal line to the reference potential on the basis of a timing ~~of inputting the~~ for input of an exposure preparation signal.

28. (Currently Amended) An image sensing apparatus according to Claim 27, wherein said control circuit controls said sensor unit so as to start an offset correction on the basis of the timing of outputting the exposure preparation signal, and controls said radiation generating apparatus so as to expose the radiation at a timing of completing the offset correction.

29. to 31. (Cancelled)

32. (Currently Amended) An image sensing apparatus according to Claim 1, further comprising a start command transmitting device adapted to transmit ~~said~~ an exposure preparation signal to said radiation generating apparatus and to said control circuit, in accordance with an operation of an operator.

33. (Currently Amended) An image sensing apparatus according to Claim 1, further comprising a start command transmitting device adapted to transmit ~~said~~ an exposure preparation signal to said radiation generating apparatus and to said control circuit, through a system storing ~~an~~ information relating to radiation.